



Technical data sheet

Marine diesel engine

D2862LE454

15.04.2021

(Version 2)

Performance data ¹

Rated power	588	kW
Rated power	800	PS
Speed	1800	rpm
Bore/Stroke	128/157	mm
Displacement	24,24	liter
Rated torque	3120	Nm
Maximum torque	3510	Nm
at speed	1000-1600	rpm
Compression ratio [ε]	19,0	:1
Mean effective pressure	16,17	bar
Mean piston speed	9,42	m/s



Consumption data ²

Specific fuel consumption ¹	202	g/kWh
Absolute fuel consumption ¹	141	l/h
Lowest fuel consumption ³	202	g/kWh

The engine illustrated may not entirely be identical to production standard engine

Engine description

Application	Main propulsion diesel for ships with fixed pitch propeller or variable pitch propeller (only IMO)
Operation profile	Unlimited operating hours per year at a maximum of 100 % of time at full load
Construction	Four-stroke marine diesel engine, direct injection, SAE 1 flywheel housing
Cylinders	12 cylinders in V-arrangement, single cylinder heads with wet replaceable cylinder liners
Air system	Single-stage turbocharger with charge air intercooler
Cooling system	Seawater cooled by rubber impeller pump or two-circuit-cooling system for hull cooling
Oil system	Force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit of the engine
Fuel system	Common Rail injection system with high pressure pump and EDC17 control, fuel to DIN EN 590
Auxiliary PTO	PTO for hydraulic pump 16 cm ³ (180Nm), front-PTO by crank shaft extension
Alternator	Three-phase generator with rectifier and transistorized governor, 28V, 120A
Starting system	Solenoid-operated electric starter, 24V, 7.0kW
Service	Oil change interval 600 operating hours
Classification	Engine according to classification requirements available => see MAN Marine Configurator

Exhaust status IMO Tier II, RCD 2013/53/EC, EPA Tier 3 commercial, China 2 commercial

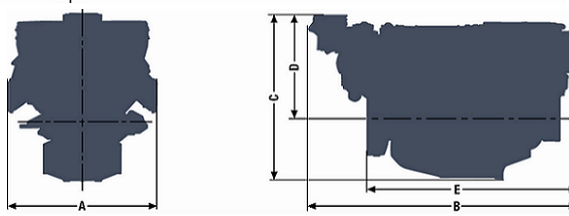
¹ Values at rated power

² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve

D2862LE454

A - overall width.....	1153 mm
B - overall length.....	2130 mm
C - overall height.....	1230 mm
D - above crank shaft....	765 mm
E - length to flywheel....	1630 mm
Engine weight (dry).....	2270 kg



Combustion parameters ¹

Intake air temperature (max.)	45 °C
Intake air vacuum (min/max)	30/60 mbar
Intake air volume flow	2800 m ³ /h

Exhaust gas temperature	338 °C
Exhaust gas volume flow	5860 m ³ /h
Exhaust gas mass flow	3290 kg/h
Exhaust back pressure (min/max)	20/80 mbar

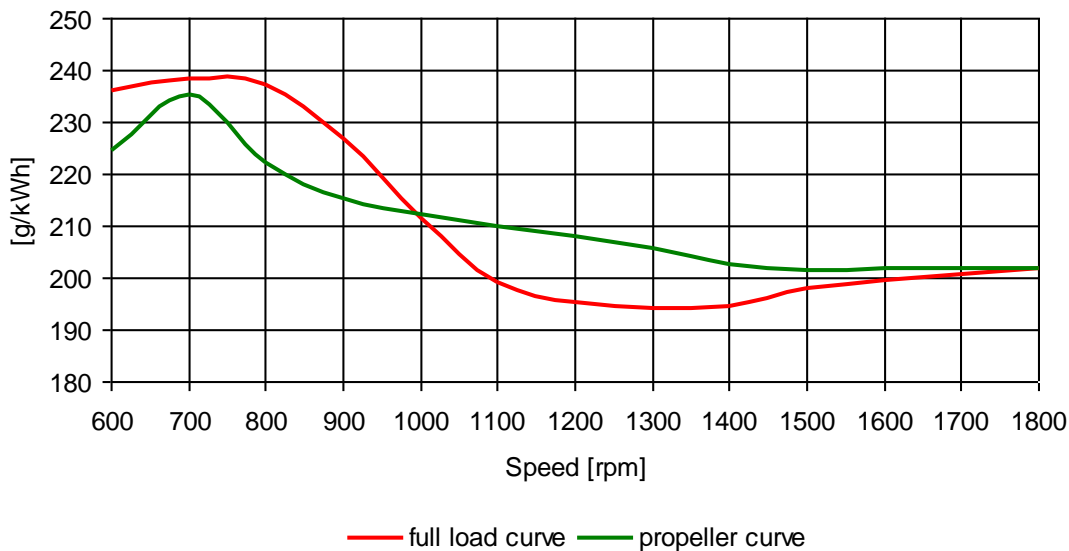
Heat balance ¹

Exhaust gas heat	300 kW
Cooling water heat	350 kW
Intercooler heat	145 kW
Radiation heat	35 kW

Noise emission (sound power) ¹

Engine surface noise (Lwa)	118,1 dB(A)
Free exhaust noise (Lwa)	120,3 dB(A)

Specific fuel consumption²



< The rated power is based on reference conditions according to ISO 3046-1 (2002) >

< Intake air temperature, max. 45°C | sea water temperature, max. 32°C >

< Barometric pressure 1000 mbar | air humidity 60% >

< Exponent for propeller curve 3 >

< Engine specifications are subjected to change without prior notice >

¹ Values at rated power

² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve